

2 Williams Street
Chelsea, MA 02150
(617) 889 - 6515



INSPECTORATE

QUALITY CERTIFICATE

Vessel	"Hatteras"	Port	New Bedford, MA	Report	014307
Customer	Sprague Energy	Date	January 18, 2007	Reference	
Operation	Analysis	Terminal	Sprague New Bedford	Sample #	1131823

Name of material being tested
Description of sample source
Samples Drawn by (company)
Samples Tested by (company)

1.0% No 6 Fuel Oil

Shore Tank 3 After Discharge
Inspectorate
Inspectorate

Tests being Performed	Test method	Sample Results
Gravity API @ 60F / Density	D - 4052	11.3 / 0.9906
Flash Point, PMCC, F	D - 93	212
Viscosity cSt @ 122F	D - 445	356.6
Viscosity SSF @ 122F	D - 2161	168.3
Pour Point C / F	D - 97	-3 / 27
Sulfur, Wt%	D - 4294	0.849
Water and Sediment, Vol %	D - 1796	0.02
Sediment by Extraction, wt%	D - 473	0.10
Water by Distillation, Vol%	D - 95	<0.1
Gross Heat of Combustion, BTU / lb	D - 240	18,411
Gross Heat of Combustion, BTU / gal	D - 240	151,935
Ash, wt %	D - 482	0.05
Vanadium, ppm	D - 5863B	40
Sodium, ppm	D - 5863B	16
Nitrogen, wt%	D - 5762	0.36
Ashphaltenes, wt%	IP - 143	4.07
Conradson Carbon Residue	D - 189	10.42
Aluminum, ppm	D-5814	40
Silicon, ppm	D-5814	91

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** Annotates Analysis Contracted Out

*** Annotates Loadport information- this test was not performed by Inspectorate